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Chief Scientist named as 2002 AIAA Fellow

by Michael Kelly AFRL Propulsion Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Dr. Alan Garscadden, Chief Scientist in the Air Force Research Laboratory's Propulsion Directorate, was recently named an American Institute of Aeronautics and Astronautics Fellow for 2002.

AIAA is the world's largest professional society devoted to the progress of engineering and science in aviation, space, and defense. AIAA Fellows are honored for making notable contributions to the arts, sciences, or technology of aeronautics or astronautics, said institute officials. They are part of a select group, since only one Fellow is elected each year for every 1,000 voting members of AIAA.

Garscadden serves as technical adviser on a wide spectrum of aeronautical research, including many facets of propulsion, aerospace power, hypersonics, laser physics, combustion, and plasma phenomena and applications.

He is known for his work in theoretical and experimental research in plasmas and energized gas flows, lasers, laser-based measurements, plasma-processing of thin films, optical and mass spectroscopic measurements, electron impact cross sections and their influence on electron transport, and the derivation of collision cross sections from transport data.

Garscadden has authored more than 250 publications and presentations, and has served on many organizing committees for both national and international meetings and symposiums. He has served on technical committees and professional societies. He authored several book chapters and conducted approximately 120 invited lectures and presentations to peer audiences. He has also served as thesis adviser and adjunct professor for several local, national and foreign universities. @